- 1. Method for preparing a wet strength agent comprising a first step of reacting a nitrogen-containing polymer with a hydrophobic compound to form hydrophobic side-chain substituents on the polymer, a second step of reacting the hydrophobised nitrogen-containing polymer obtained with a crosslinker to form a cationic nitrogen-containing resin, and a third step comprising forming of particles by emulsion polymerisation of one or more ethylenically unsaturated monomers in the presence of the wet strength resin formed.
- 2. Method according to claim 1 w h e r e i n the nitrogen-containing polymer is 10 a polyamine or a polyaminoamide.
  - 3. Method according to any of the claims 1-2 wherein the first step is a vinylog addition or alkylation where the hydrophobic compound is selected from alkyl(meth)acrylates, alkyl(meth)acrylamides, alkyl sulphonates, alkyl sulphates, diazo compounds, ethers, or epoxides or mixtures thereof.
  - 4. Method according to claim 1 wherein the hydrophobic compounds comprise a hydrophobic chain having 6-40 carbon atoms.

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- 5. Method according to claim 1 wherein the hydrophobic compounds comprise a hydrophobic chain having 8-40 carbon atoms.
- 6. Method according to claim 1 wherein the hydrophobic compound 20 contains a chain of atoms containing at least one hetero atom.
  - 7. Method according to claim 1 w h e r e i n the crosslinker is epichlorohydrin.
  - 8. Method according to claim 1 w h e r e i n the monomers are selected from styrene, butadiene, alkyl (meth)acrylates, alkyl(meth)amides, (meth)acrylonitrile, vinyl acetate, or vinyl amide, or mixtures or derivatives thereof.
  - 9. Method as claimed in claim 1 where in the hydrophobic compound is a saturated compound, or an unsaturated compound, resulting in a nitrogen-containing polymer having saturated side-chain substituents.
    - 10. Paper wet strength agent obtainable by a method as defined in claim 9.
- 11. Paper wet strength agent comprising a wet strength resin comprising cationic
  30 nitrogen-containing polymers having hydrophobic saturated side-chain substituents and groups derived from a crosslinker; and polymeric particles.
  - 12. Paper wet str ngth agent according to claim 11 where in th hydrophobic side-chain substituints contain a hydrophobic group attached to a nitrogen atom of the nitrogen-containing polymer via a chain of atoms comprising 6-40 carbon atoms.
  - 13. Paper w t str ngth ag nt according to any of claims 11-12 w h e r i n the hydrophobic side-chain substituents are select d from derivatives of alkyl(meth)acrylates,

alkyl(meth)acrylamides, alkyl sulphonates, alkyl sulphates, diazo compounds, ethers, or epoxides or mixtures thereof.

- 14. Method for preparing a wet strength resin comprising a first step of reacting a nitrogen-containing polymer with a hydrophobic compound to form hydrophobic side-chain substituents, in which said hydrophobic compound is selected from alkyl(meth)acrylates, alkyl(meth)acrylamides, alkyl sulphonates, alkyl sulphates, diazo compounds, ethers, or epoxides or mixtures thereof, and a second step of reacting the hydrophobised nitrogen-containing polymer obtained with a crosslinker to form a cationic nitrogen-containing resin.
  - 15. Method according to claim 14 wherein the hydrophobic compound contains 6-40 carbon atoms.

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- 16. Method as claimed in claims 14 or 15 wherein the hydrophobic compound is a saturated compound, or an unsaturated compound, resulting in a nitrogen-containing polymer having saturated side-chain substituents.
  - 17. Paper wet strength resin obtainable by a method as defined in claims 14-15.
- 18. Paper wet strength resin comprising cationic nitrogen-containing polymers having saturated hydrophobic side-chain substituents selected from compounds derived from alkyl(meth)acrylates, alkyl(meth)acrylamides, alkyl sulphonates, alkyl sulphonates, diazo compounds, ethers, or epoxides or mixtures thereof; and groups derived from a crosslinker.
- 19. Process for production of tissue paper comprising addition of a paper wet strength resin or agent, comprising a cationic nitrogen-containing polymer having hydrophobic side-chain substituents, to an aqueous cellulosic suspension.
- 20. Process according to claim 19, wherein the paper wet strength resin or agent is added in an amount of from about 5 to about 50 kg/tonne dry cellulosic fibres.
  - 21. Process according to claims 19 or 20, wherein the paper wet strength resin is added in an amount of from about 15 to about 50 kg/tonne dry cellulosic fibres.
  - 22. Process according to claim 20, wherein the paper wet strength resin is added in an amount of from about 25 to about 50 kg/tonne dry cellulosic fibres.
  - 23. Process according to claim 20, wherein a dry strength agent is added in combination with the paper wet strength resin or agent.
  - 24. Process according to claim 20, wherein the produced tissue paper has a grammage lower than about 70 g/m<sup>2</sup>.
  - 25. Tissue paper comprising a paper wet strength resin or agent comprising a cationic nitrogen-containing polymer having hydrophobic side-chain substituents.

- 26. Tissue paper according to claim 25, wherein the tissue paper comprises a paper wet strength resin or agent in an amount from about 5 to about 50 kg/tonne dry cellulosic fibres.
- 27. Tissue paper comprising a paper wet strength resin or agent obtainable by a method according to any of claims 19-24.